

CLAIMS

What is claimed is:

1. A mobile base assembly for supporting equipment 18 for movement over a support surface 16, said assembly comprising:
 - 5 a frame 14;
 - a plurality of wheels 12 attached to said frame 14 for movably supporting said frame 14 on the support surface 16;
 - an anchor mechanism 10 for lifting said wheels 12 from the support surface 16 and anchoring said frame 14 to the support surface 16, said mechanism 10
 - 10 comprising;
 - at least one plate (20 or 22) attached to said frame 14,
 - an anchor member 34 pivotally mounted on said plate for pivotal movement between an anchor position and a retracted position,
 - a foot 40 attached to said anchor member 34 and having a base 42 for
 - 15 engaging the support surface 16 in said anchor position,
 - a biasing member 60 for reacting between said plate and said anchor member 34 to bias said anchor member 34 to pivot to said retracted position,
 - a lever 70 pivotally mounted on said plate for movement between said anchor and retracted positions, and
 - 20 a cam 72 on said lever 70 for engaging and pivoting said anchor member 34 against the biasing reaction of said biasing member 60 from said retracted position to said anchor position in response to said lever 70 being moved from said retracted position to said anchor position.

2. An assembly as set forth in claim 1 wherein said anchor member 34 includes top 46 and bottom 48 edges and presents a cam flange 56 extending laterally from said top edge 46 thereof toward said inner plate 20 for engaging said cam 72 on said lever 70 for pivoting said anchor member 34.
- 5 3. An assembly as set forth in claim 2 wherein said anchor member 34 presents a foot flange 50 extending laterally from said bottom edge 48 and attached to said foot 40.
4. An assembly as set forth in claim 3 wherein said at least one plate includes inner 20 and outer 22 plates in spaced parallel relationship to one another, a
10 first pin 30 extending between said plates 20, 22 and pivotally mounting said anchor member 34 between said plates 20, 22 for pivotal movement between said anchor position and said retracted position.
5. An assembly as set forth in claim 4 wherein said outer plate 22 defines a recess 52 therein for receiving said foot flange 50 in said retracted position.
- 15 6. An assembly as set forth in claim 4 wherein said anchor member 34 presents a guide flange 54 spaced along said bottom edge 48 from said foot flange 50 and extending laterally from said bottom edge 48 thereof to a distal edge adjacent said inner plate 20.
7. An assembly as set forth in claim 5 wherein said foot flange 50 extends
20 laterally from said bottom edge 48 of said anchor member 34 to a distal edge underlying said outer plate 22, said foot 40 supported by said foot flange 50 outside of said outer plate 22.

8. An assembly as set forth in claim 4 including a lever pin 66 extending between said plates 20, 22 above said anchor member 34, said lever 70 being pivotally mounted on said lever pin 66 between said plates 20, 22 for movement between said anchor and retracted positions.

5 9. An assembly as set forth in claim 4 including a spring stop 58 extending inwardly from said inner plate 20, said biasing member comprising a coiled spring 60 coiled around said first pin 30 and having a first arm 62 disposed under said cam flange 56 and a second arm 64 engaging said spring stop 58 to react between said
10 inner plate 20 and said anchor member 34 to bias said anchor member 34 to pivot to said retracted position.

10. A mobile base assembly for supporting equipment 18 for movement over a support surface 16, said assembly comprising:

a frame 14;

a plurality of wheels 12 attached to said frame 14 for movably supporting said frame 14 on the support surface 16;

an anchor mechanism 10 for lifting said wheels 12 from the support surface 16 and anchoring said frame 14 to the support surface 16, said mechanism 10 comprising;

an inner plate 20 containing a first set of spacer holes 24,

an outer plate 22 containing a second set of spacer holes 26 for alignment with said first set of spacer holes 24 of said inner plate 20,

a plurality of cylindrical spacers 28 disposed between said plates 20, 22 in alignment with said spacer holes 24, 26 for spacing said plates 20, 22 in spaced parallel relationship to one another,

a plurality of pins 30, 36 extending through said aligned spacer holes 24, 26 and said spacers 28 and into said frame 14 for maintaining said plates 20, 22 in said parallel relationship and attached to said frame 14 with said inner plate 20 disposed adjacent to said frame 14,

an anchor member 34 having top 46 and a bottom 48 edges and pivotally mounted on a first 30 of said pins between said plates 20, 22 for pivotal movement between an anchor position and a retracted position,

said anchor member 34 presenting a foot flange 50 extending laterally from said bottom edge 48 thereof to a distal edge underlying said outer plate 22 and defining a threaded hole disposed outside of said outer plate 22,

said anchor member 34 presenting a guide flange 54 spaced along said bottom edge 48 from said foot flange 50 and extending laterally from said bottom edge 48 thereof to a distal edge adjacent said inner plate 20,

said outer plate 22 having a recess 52 therein for receiving said foot flange 50
5 in said retracted position,

a foot 40 having a base 42 for engaging the support surface 16 in said anchor position and a threaded shaft 44 engaging said threaded hole in said foot flange 50,

said anchor member 34 presenting a cam flange 56 extending laterally from said top edge 46 thereof toward said inner plate 20,

10 a spring stop 58 extending inwardly from said inner plate 20,

a spring 60 coiled around said first pin 30 and having a first arm 62 disposed under said cam flange 56 and a second arm 64 engaging said spring stop 58 to react between said inner plate 20 and said anchor member 34 to bias said anchor member 34 to pivot to said retracted position,

15 a lever pin 66 extending between said plates 20, 22 above said anchor member 34,

a lever 70 pivotally mounted on said lever pin 66 between said plates 20, 22 for movement between said anchor and retracted positions, and

a cam 72 on said lever 70 for engaging said cam flange 56 and pivoting said
20 anchor member 34 against the biasing reaction of said spring 60 from said retracted position to said anchor position in response to said lever 70 being moved from said retracted position to said anchor position.

11. An anchor mechanism 10 for anchoring a frame 14 normally supported by wheels 12 to a support surface 16, said mechanism 10 comprising;
- at least one plate (20 or 22) for attachment to said frame 14,
 - an anchor member 34 pivotally mounted on said plate for pivotal movement
- 5 between an anchor position and a retracted position,
- a foot 40 attached to said anchor member 34 and having a base 42 for engaging the support surface 16 in said anchor position,
 - a biasing member 60 for reacting between said plate and said anchor member
- 34 to bias said anchor member 34 to pivot to said retracted position,
- 10 a lever 70 pivotally mounted on said plate for movement between said anchor and retracted positions, and
- a cam 72 on said lever 70 for engaging and pivoting said anchor member 34 against the biasing reaction of said biasing member 60 from said retracted position to said anchor position in response to said lever 70 being moved from said retracted
- 15 position to said anchor position.
12. An assembly as set forth in claim 11 wherein said anchor member 34 includes top 46 and bottom 48 edges and presents a cam flange 56 extending laterally from said top edge 46 thereof toward said inner plate 20 for engaging said cam 72 on said lever 70 for pivoting said anchor member 34.

13. An assembly as set forth in claim 12 wherein said anchor member 34 presents a foot flange 50 extending laterally from said bottom edge 48 and attached to said foot 40.

14. An assembly as set forth in claim 13 wherein said at least one plate
5 includes inner 20 and outer 22 plates in spaced parallel relationship to one another, a first pin 30 extending between said plates 20, 22 and pivotally mounting said anchor member 34 between said plates 20, 22 for pivotal movement between said anchor position and said retracted position.

15. An assembly as set forth in claim 14 wherein said outer plate 22
10 defines a recess 52 therein for receiving said foot flange 50 in said retracted position.

16. An assembly as set forth in claim 14 wherein said anchor member 34 presents a guide flange 54 spaced along said bottom edge 48 from said foot flange 50 and extending laterally from said bottom edge 48 thereof to a distal edge adjacent said inner plate 20.

17. An assembly as set forth in claim 15 wherein said foot flange 50
15 extends laterally from said bottom edge 48 of said anchor member 34 to a distal edge underlying said outer plate 22, said foot 40 supported by said foot flange 50 outside of said outer plate 22.

18. An assembly as set forth in claim 14 including a lever pin 66 extending
20 between said plates 20, 22 above said anchor member 34, said lever 70 being pivotally mounted on said lever pin 66 between said plates 20, 22 for movement between said anchor and retracted positions.

19. An assembly as set forth in claim 14 including a spring stop 58
extending inwardly from said inner plate 20, said biasing member comprising a coiled
spring 60 coiled around said first pin 30 and having a first arm 62 disposed under said
cam flange 56 and a second arm 64 engaging said spring stop 58 to react between said
5 inner plate 20 and said anchor member 34 to bias said anchor member 34 to pivot to
said retracted position.

20. An anchor mechanism 10 for lifting the wheels 12 supporting a frame 14 from a support surface 16 and anchoring the frame 14 to the support surface 16, said mechanism 10 comprising;

an inner plate 20 containing a first set of spacer holes 24,

5 an outer plate 22 containing a second set of spacer holes 26 for alignment with said first set of spacer holes 24 of said inner plate 20,

a plurality of cylindrical spacers 28 disposed between said plates 20, 22 in alignment with said spacer holes 24, 26 for spacing said plates 20, 22 in spaced parallel relationship to one another,

10 a plurality of pins 30, 36 extending through said aligned spacer holes 24, 26 and said spacers 28 for maintaining said plates 20, 22 in said parallel relationship,

an anchor member 34 having top 46 and a bottom 48 edges and pivotally mounted on a first 30 of said pins between said plates 20, 22 for pivotal movement between an anchor position and a retracted position,

15 said anchor member 34 presenting a foot flange 50 extending laterally from said bottom edge 48 thereof to a distal edge underlying said outer plate 22 and defining a threaded hole disposed outside of said outer plate 22,

said anchor member 34 presenting a guide flange 54 spaced along said bottom edge 48 from said foot flange 50 and extending laterally from said bottom edge 48 thereof to a distal edge adjacent said inner plate 20,

20 said outer plate 22 having a recess 52 therein for receiving said foot flange 50 in said retracted position,

a foot 40 having a base 42 for engaging the support surface 16 in said anchor position and a threaded shaft 44 engaging said threaded hole in said foot flange 50,

said anchor member 34 presenting a cam flange 56 extending laterally from
said top edge 46 thereof toward said inner plate 20,

a spring stop 58 extending inwardly from said inner plate 20,

a spring 60 coiled around said first pin 30 and having a first arm 62 disposed
5 under said cam flange 56 and a second arm 64 engaging said spring stop 58 to react
between said inner plate 20 and said anchor member 34 to bias said anchor member
34 to pivot to said retracted position,

a lever pin 66 extending between said plates 20, 22 above said anchor member
34,

10 a lever 70 pivotally mounted on said lever pin 66 between said plates 20, 22
for movement between said anchor and retracted positions, and

a cam 72 on said lever 70 for engaging said cam flange 56 and pivoting said
anchor member 34 against the biasing reaction of said spring 60 from said retracted
position to said anchor position in response to said lever 70 being moved from said
15 retracted position to said anchor position.